

VO-1810/VO-1810UK

Simulated TV picture



Colour receiver/monitor
CVM-1320E



VO-1810 for continental models
VO-1810UK for U.K. models

*A future-oriented global communication system
with versatile functions
The Sony U-matic Colour Videocassette Recorder/Player*

U-matic

Research Makes the Difference

SONY®

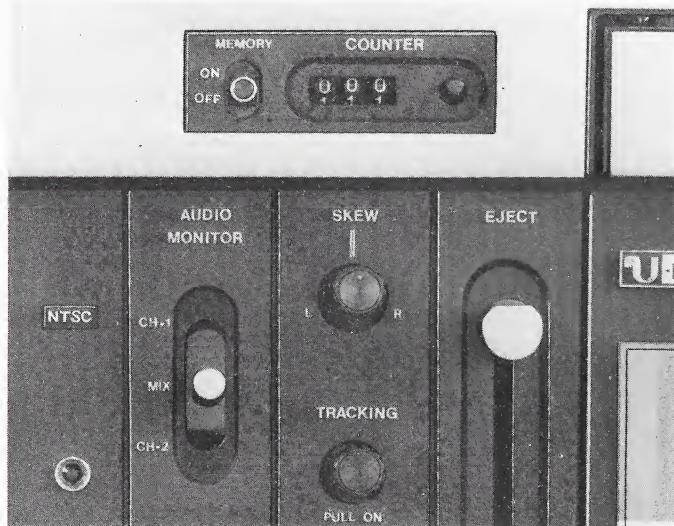
*Trademark of Sony Corporation

Features

■ **Records and plays back the PAL colour and CCIR monochrome video signals** from camera, television or other sources at any time. In addition, **NTSC colour and American standard monochrome video signals can be played back** through a Sony receiver/monitor or a Sony Trinitron videocassette monitor.

■ **High resolution colour and monochrome pictures** due to advanced circuit design and high quality videocassette tape. Sony ¾-inch tape provides an optimum combination of picture stability and quality with slow speed (95.3mm/s, 3¼ ips) for tape economy, while allowing adequate space for two audio tracks.

■ **The memory counter and repeat function** are linked to provide various tape motions—FULL AUTO REWIND, AUTO REPEAT, PROGRAMMED REWIND and PROGRAMMED REPEAT (see linkage operation chart.)



■ **Easy operation**—No need to thread the tape. Videocassette insertion is as easy as operating a toaster. Videocassettes can also be stopped and removed at any point without rewinding. Minimum number of controls.

■ **Easy playback picture viewing**—Built-in RF modulator allows the recorded tape to play back through a conventional colour TV receiver.

■ **Hi-fi sound**—Two audio tracks provide bilingual messages or high quality stereo sound through a stereo components system. Stereo headphones may be used.

■ **8-pin connector** for single cable connection to a TV receiver/monitor. Convenient for off-the-air TV programme recording and playback.

■ **Pause function**, during either the record or playback mode, stops the tape momentarily. Quick restart is assured by pushing the pause button again.

■ **Audio dubbing**—Commentary or music can be added at any time to previous recordings.

■ **Automatic shutoff** on PLAY, REWIND and FAST FORWARD modes when tape reaches the end.

■ **Safety recording—AGC (Automatic Gain Control) for video recording: Limiter circuit for audio recording**, prevents tape saturation and distortion without reducing the full dynamic range by reducing high level peaks.

■ **Full systems capability**—Signals can be recorded or fed into CCTV or other video systems.

■ **Complete tape interchangeability**—Tapes recorded on another U-matic Videocassette recorder/player or commercially available pre-recorded tape incorporating the PAL system or the NTSC system can be played back on the set. **Skew and tracking controls** are provided for precise control of tape.

■ **Highly reliable solid-state circuitry**—Automatic control circuits, using advanced ICs and transistors, ensure top performance and long-term reliability with virtually no maintenance.

■ **Commercially available timer** can be used to automatically turn the power of the set on or off at a preset time.

VO-1810/1810UK You've got the whole world in your hands!!!

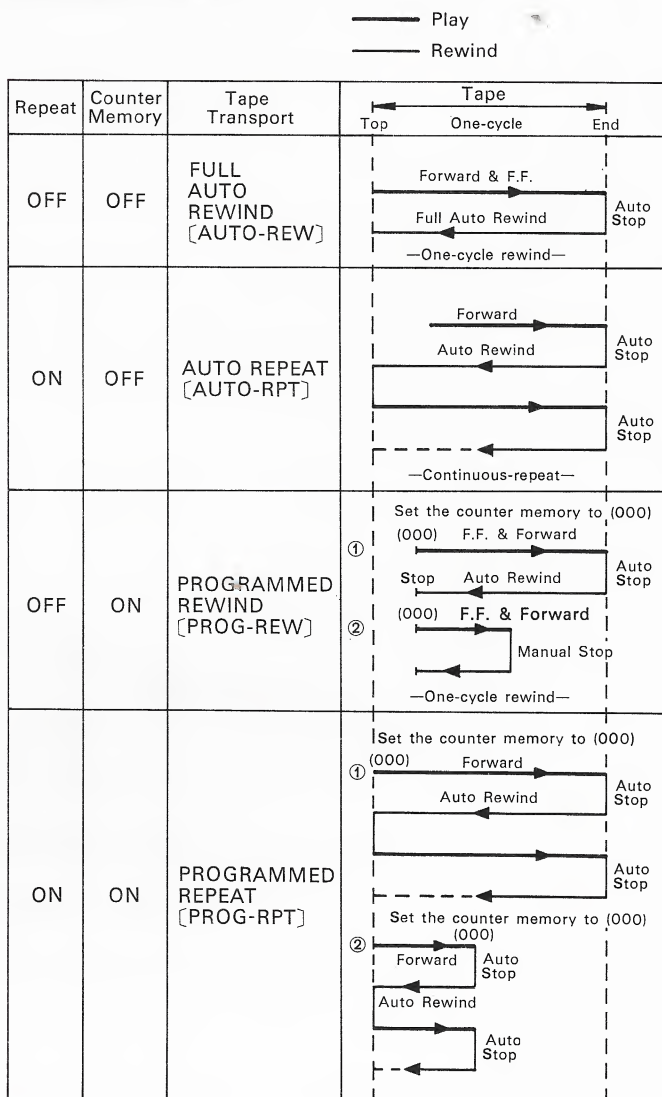
The lack of interchangeability between complicated TV systems and standards has been solved with the new Sony U-matic Colour Videocassette Recorder/Player. The VO-1810/1810UK records and plays back PAL colour and CCIR monochrome programmes. And as a bonus feature, it plays back NTSC colour and EIA monochrome recordings from the United States through an optional Sony receiver/monitor or a Trinitron videocassette monitor.

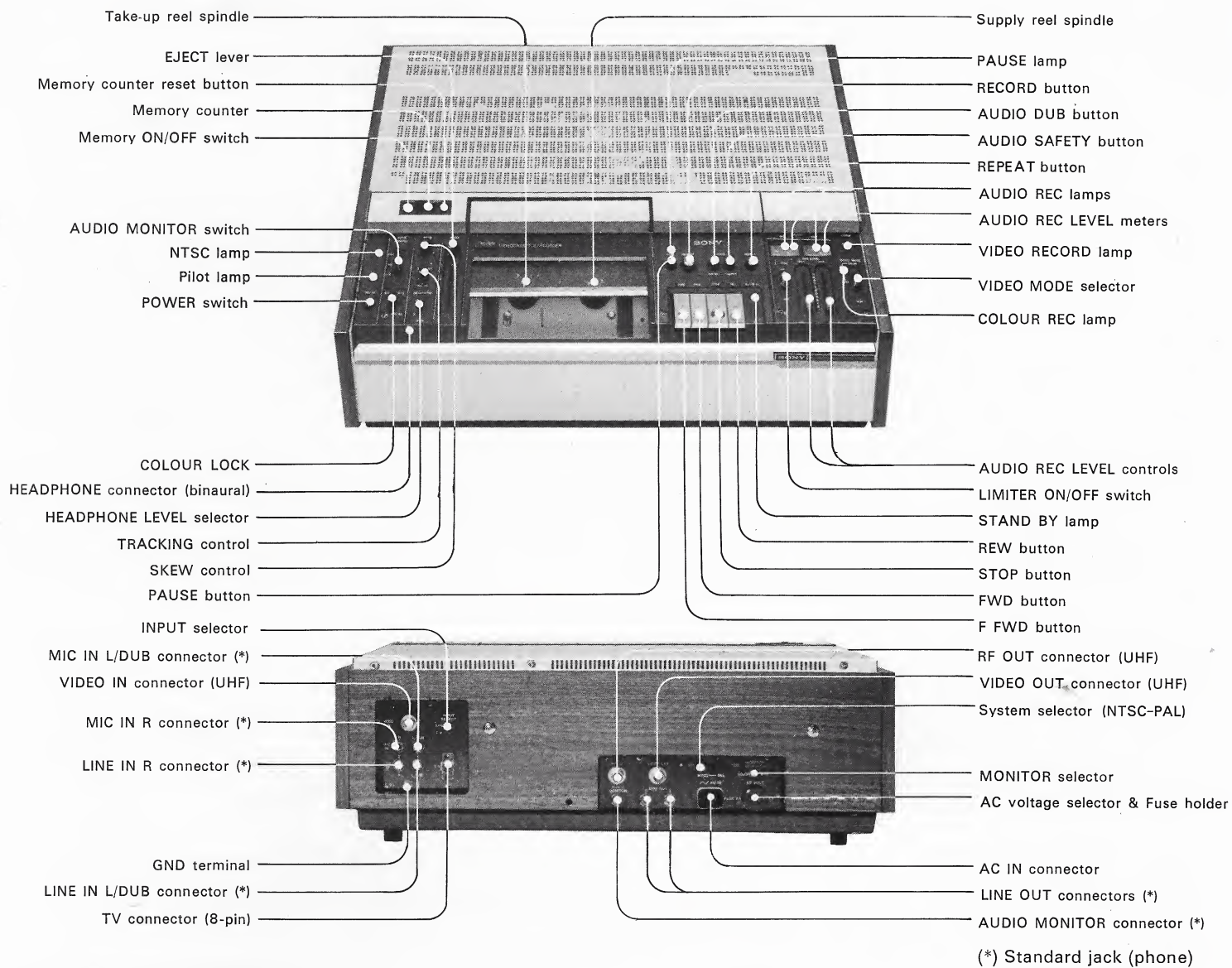
It offers all the features necessary to take advantage of Sony's total communication system. Compact and very simple to operate. Unique memory counter and repeat function, safety recording system, audio dubbing and much more.

The machine allows you to use handy U-matic videocassettes for a variety of audio-visual programmes and plays them back on any CCIR-PAL standard TV system. You can enjoy programmes recorded directly from TV broadcasting signals, your own existing programmes or those converted from film or other formats. Reproduced pictures are sharply focused, crisp and stable. Two audio tracks provide hi-fi stereo music or bilingual messages. Videocassettes are erasable, can be revised and used over and over again.

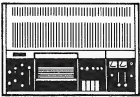

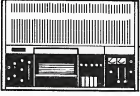

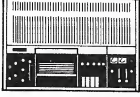

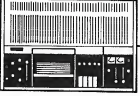
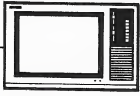
The VO-1810/1810UK opens new horizons in industry, education and recreation, enabling each person to relate more actively to today's environment. It is a future-oriented communication and information system.

Linkage operation of repeat function and memory counter

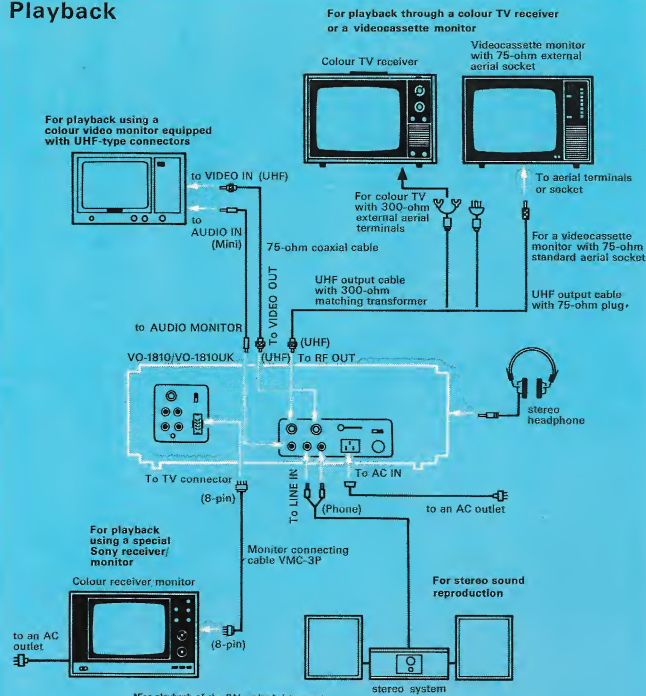




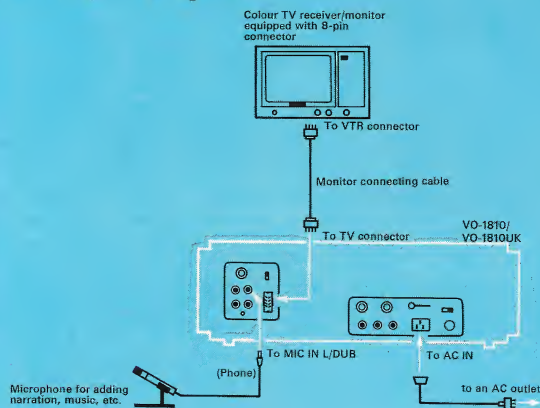
A variety of combinations

Combination of Equipment	Playback		Record		Recommended Sony TV receiver or Receiver/monitor
	PAL colour & CCIR monochrome recorded tape	NTSC colour & EIA monochrome recorded tape	PAL colour & CCIR monochrome from camera	PAL colour & CCIR monochrome from off the air	
 VO-1810 or VO-1810UK  Colour TV receiver	Yes	No	Yes	No	KV-1310E KV-1310UB KV-1810E KV-1810UB
 VO-1810 or VO-1810UK  Colour receiver/monitor (other maker)	Yes	No	Yes	Yes	
 VO-1810 or VO-1810UK  Sony Colour receiver/monitor	Yes	Yes	Yes	Yes	CVM-1320E CVM-1320UB CVM-1810E CVM-1810UB
 VO-1810 or VO-1810UK  Sony Trinitron videocassette monitor	Yes	Yes	Yes	No	CKV-181E CKV-181UB

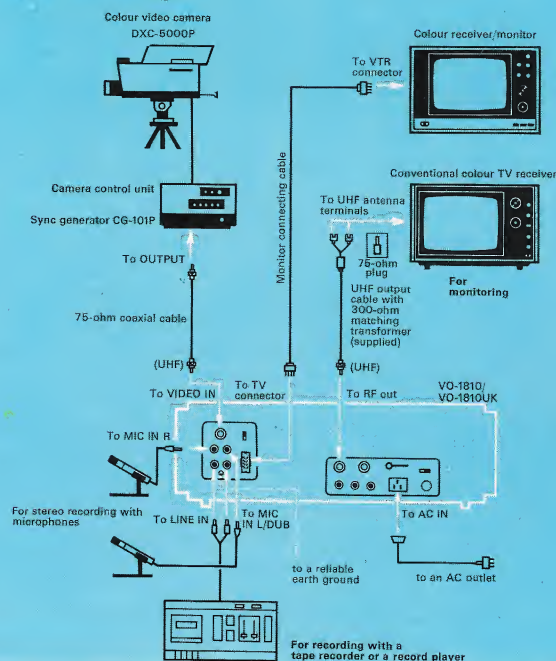
Playback



Recording TV programs



Camera recording



SPECIFICATIONS

General

- Video recording system: Rotary two-head helical scan system
Luminance; FM recording
Colour signal; Converted subcarrier direct recording
- Video signal system: Recording: PAL video signals (625 lines, 50 fields)
Playback: PAL video signals (625 lines, 50 fields)
NTSC video signals (525 lines, 60 fields)
- Storage temperature: -20°C to 60°C (-4°F to 140°F)
- Operating temperature: 5°C to 40°C (41°F to 104°F)
- RF output signal: West European standard UHF channels 50 - 54, 83 $\pm 5\text{dB}\mu$, 75 ohms, unbalanced for **VO-1810**
British standard UHF channels 50 - 54, 83 $\pm 5\text{dB}\mu$, 75 ohms, unbalanced for **VO-1810UK**
- Power requirements: AC 110, 127, 220 or 240V $\pm 5\%$ (selectable with voltage selector), 50Hz $\pm 0.5\%$
VO-1810 is preset at 220V.
VO-1810UK is preset at 240V.
- Power consumption: 115W
- Dimensions: 676(W) \times 238(H) \times 466mm(D) ($26\frac{1}{8} \times 9\frac{3}{8} \times 18\frac{3}{4}$ ")
- Weight: 34 kg (75 lb)

Video signal

- Input: 0.5 - 2.0V (p-p), 75 ohms, unbalanced (V/S=7/3)
- Output: 1.0V (p-p), 75 ohms, unbalanced
- Horizontal resolution: Monochrome; more than 300 lines
Colour; more than 240 lines
- Signal-to-noise ratio: Better than 40dB

Audio signal

- Input: Microphone; -72 to -30dB , 600 ohms, unbalanced
Auxiliary; -22 to $+10\text{dB}$, 10k ohms, unbalanced
- Output: LINE OUT (both channels); 0dB, 10k ohms, unbalanced
MONITOR OUT; 0dB, 10k ohms, unbalanced
HEADPHONE OUT: $-24\text{dB}/-34\text{dB}$ (selectable), 8 ohms, unbalanced
- Crosstalk: Better than 40dB
- Frequency response: 100Hz - 6kHz $\pm 2\text{dB}$
50Hz - 12kHz $+2\text{dB}/-5\text{dB}$
- Signal-to-noise ratio: Better than 42dB
- Audio dubbing: New sound on to inel 1

Tape transport

- Tape speed: 9.53cm/s ($3\frac{3}{4}$ ips)
- Wow and flutter: Less than 0.25%
- Recording or playback time: 60 min. (using Sony KC-60)
30 min. (using Sony KC-30)
- Fast forward and rewind time: Approx 3 min. (using Sony KC-60)
- Tape: CrO₂ tape

Supplied accessories:

- Mains lead (AC power cord)
UHF output cable with 300-ohm matching transformer
Videocassette KC-10 (10 min.)
Dust cover

Recommended video equipment and accessories

- 13-inch colour receiver/monitor: CVM-1320E (West European standards)
CVM-1320UB (British standards)
- 18-inch colour receiver/monitor: CVM-1810E (West European standards)
CVM-1810UB (British standards)
- 18-inch Trinitron videocassette monitor: CKV-181E (West European standards)
CKV-181UB (British standards)
- 18-inch colour TV receiver: KV-1810E (West European standards)
KV-1810UB (British standard)
- Monochrome video camera: AVC-3200CE
AVC-4200ACE
AVC-4600CE
- Colour video camera: DXC-5000P
DXC-5020P
- Special effects generator: SEG-200P
- Sync generator: CG-101P (colour), CG-3CE (monochrome)
- Subcarrier phase shifter: PSA-101P
- Sync distributor: DA-101CE
- Headphones: DR-5A, 7, 11
- Videocassette: KC-60 (60 min.), 30 (30 min.), 20 (20 min.), 15 (15 min.), 10 (10 min.)
- Cleaning videocassette: KC-1C

SONY CORPORATION